

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2015

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Respondent	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
January	1/7/2015	5:00 PM	1/8/2015	8:35 AM	Memphis Light Gas and Water Division	Tennessee	SERC	Public appeal to reduce the use of electricity	Severe Weather - Winter	Unknown	Unknown
January	1/7/2015	5:00 PM	1/8/2015	8:35 AM	Tennessee Valley Authority	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	SERC	Public appeal to reduce the use of electricity	Severe Weather - Winter	Unknown	Unknown
January	1/22/2015	4:24 AM	1/22/2015	5:55 AM	PacifiCorp	Portland, Oregon	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
January	1/26/2015	2:39 PM	1/26/2015	2:40 PM	PacifiCorp	Cave Junction, Oregon	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
January	1/27/2015	10:30 AM	1/27/2015	10:31 AM	Sam Rayburn G&T Elec Coop Inc	Kountze, Texas	SERC	Suspected Physical Attack	Sabotage	0	0
February	2/1/2015	11:24 AM	2/1/2015	11:44 AM	PacifiCorp	Weber County, Utah	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
February	2/2/2015	9:40 AM	2/2/2015	9:41 AM	Sam Rayburn G&T Elec Coop Inc	Conroe, Texas	TRE	Suspected Physical Attack	Sabotage	Unknown	Unknown
February	2/4/2015	11:55 AM	2/4/2015	11:56 AM	PacifiCorp	Vollmers, California	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
February	2/5/2015	8:15 AM	2/5/2015	8:17 AM	Arizona Public Service Co	Cameron, Arizona	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
February	2/5/2015	11:20 AM	2/5/2015	11:21 AM	PacifiCorp	Dunismuir, California	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
February	2/6/2015	8:58 PM	Unknown	Unknown	Pacific Gas & Electric Co	Northern California	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Wind	Unknown	65,000
February	2/9/2015	11:30 AM	2/9/2015	1:15 PM	Colorado Springs Utilities	Colorado Springs, Colorado	WECC	Suspected Physical Attack	Sabotage	Unknown	Unknown
February	2/16/2015	9:41 PM	2/18/2015	7:00 AM	Southern Company	Northern/North Eastern, Georgia	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Winter	620	186,035
February	2/16/2015	9:00 PM	2/18/2015	2:00 PM	Tennessee Valley Authority	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Winter	Unknown	67,189
February	2/17/2015	9:00 AM	2/18/2015	11:00 PM	Duke Energy Progress	North Carolina, South Carolina	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Winter	Unknown	52,000
February	2/17/2015	2:12 AM	2/18/2015	4:00 PM	Duke Energy Carolinas	North Carolina, South Carolina	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Winter	Unknown	68,000
February	2/17/2015	6:20 AM	2/17/2015	7:30 AM	Arizona Public Service Co	Prescott Valley, Arizona	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
February	2/18/2015	3:00 PM	2/20/2015	9:00 AM	Tennessee Valley Authority	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	SERC	Public appeal to reduce the use of electricity	Severe Weather - Winter	Unknown	Unknown
February	2/19/2015	2:30 PM	2/19/2015	3:20 PM	Arizona Public Service Co	Winslow, Arizona	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
February	2/20/2015	6:00 AM	2/20/2015	10:00 AM	Duke Energy Progress	North Carolina, South Carolina	SERC	System-wide voltage reductions of 3 percent or more	Severe Weather - Winter	Unknown	Unknown
February	2/21/2015	8:34 AM	2/21/2015	12:45 PM	Tennessee Valley Authority	Fentress County, Tennessee	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Winter	Unknown	50,000
February	2/26/2015	3:12 AM	2/26/2015	8:00 PM	Duke Energy Progress	North Carolina, South Carolina	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Winter	Unknown	124,000

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2015

February	2/26/2015	3:30 AM	2/27/2015	12:00 PM	Duke Energy Carolinas	North Carolina	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Winter	400	103,776
March	3/4/2015	9:05 AM	3/4/2015	2:15 PM	Tennessee Valley Authority	Johnson City , Tennessee	SERC	Suspected Physical Attack	Vandalism	Unknown	Unknown
March	3/9/2015	11:50 PM	3/10/2015	10:53 AM	TPWR	Washington	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
March	3/15/2015	3:30 PM	3/15/2015	7:00 PM	Portland General Electric Co	Greater Portland & Salem , Oregon	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Wind	210	71,000
March	3/16/2015	7:31 AM	3/16/2015	10:06 AM	Northern States Power Co	Winona , Minnesota	MRO	Suspected Physical Attack	Sabotage	20	5,941
March	3/19/2015	6:30 PM	3/19/2015	9:37 PM	Sunflower Electric Power Corp	Southwest Kansas	SPP	Suspected Physical Attack	Vandalism	Unknown	Unknown
March	3/22/2015	4:25 PM	3/22/2015	4:26 PM	AES Laurel Mountain, LLC	West Virginia	RFC	Suspected Physical Attack	Vandalism	24	0
March	3/26/2015	3:21 PM	3/26/2015	4:59 PM	Pacific Gas & Electric Co	Contra Costa County, California	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	15	Unknown
March	3/29/2015	4:26 AM	3/29/2015	9:21 AM	Pacific Gas & Electric Co	California	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
April	4/1/2015	6:25 PM	4/1/2015	6:26 PM	PacifiCorp	San Juan County, Utah	WECC	Suspected Physical Attack	Vandalism	Unknown	37
April	4/2/2015	7:04 AM	4/2/2015	8:57 AM	PacifiCorp	San Juan County, Utah	WECC	Suspected Physical Attack	Vandalism	6	5,763
April	4/3/2015	2:00 AM	4/3/2015	7:48 AM	Westar Energy Inc	Harvey, Reno, and Sedgwick Counties, Kansas	SPP	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather - Thunderstorms	Unknown	70,000
April	4/6/2015	8:12 AM	4/6/2015	12:08 PM	Pacific Gas & Electric Co	Butte County, California	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	System Operations	Unknown	80,000
April	4/7/2015	12:30 PM	4/7/2015	5:34 PM	Potomac Electric Power Co	Unknown	RFC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	Unknown	Unknown
April	4/7/2015	3:34 PM	4/7/2015	3:46 PM	WAPA Sierra Nevada Region	California	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	0	0
April	4/17/2015	9:30 PM	4/19/2015	11:50 PM	CenterPoint Energy	Houston, Texas	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	280,982
April	4/17/2015	9:16 AM	4/17/2015	11:00 AM	Peak Reliability	Canada	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	9,300	Unknown
April	4/18/2015	9:00 PM	4/21/2015	4:00 AM	Oncor Electric Delivery Company LLC	Dallas, Fort Worth, Texas	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	89,000

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2015

April	4/24/2015	7:10 PM	4/26/2015	4:00 PM	Oncor Electric Delivery Company LLC	Dallas, Fort Worth, Texas	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	57,000
April	4/27/2015	10:30 AM	4/28/2015	6:45 PM	Entergy Services, Inc.	Louisiana and Texas	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	199,000
May	5/2/2015	10:51 PM	5/3/2015	12:26 AM	Tennessee Valley Authority	Franklin County, Tennessee	SERC	Suspected Physical Attack	Vandalism	1	215
May	5/4/2015	3:25 PM	5/4/2015	3:26 PM	PacifiCorp	Salt Lake County, Utah	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown
May	5/11/2015	8:32 AM	5/11/2015	8:33 AM	City Of Redding, Redding Electric Utility	Shasta County, California	WECC	Suspected Physical Attack	Sabotage	0	0
May	5/12/2015	12:40 AM	5/12/2015	12:45 AM	The City of Clarksdale, Mississippi Clarksdale PUC	Coahoma County, Mississippi	SERC	Suspected Physical Attack	Sabotage	0	0
May	5/18/2015	3:28 PM	5/18/2015	3:47 PM	Peak Reliability for BCHA	Washington	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	Severe Weather	275	0
May	5/25/2015	6:00 PM	5/29/2015	7:15 AM	Oncor Electric Delivery Company LLC	North Texas	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	454,000
May	5/25/2015	10:45 PM	5/28/2015	1:25 AM	CenterPoint Energy	Fort Bend County, & Harris County , Texas	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	61,000
May	5/25/2015	8:30 PM	5/26/2015	6:30 PM	American Electric Power - (SPP Reliability Region)	Texas	SPP	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	57,531
May	5/25/2015	8:30 PM	Unknown	Unknown	Southwest Power Pool, Inc.	Texas, Louisiana, Arkansas	SPP	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	57,351
May	5/26/2015	5:30 AM	5/27/2015	7:00 PM	Entergy Services, Inc.	Texas, Louisiana, Arkansas, Mississippi	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	78,515
June	6/1/2015	12:27 AM	6/1/2015	2:15 AM	Owensboro Municipal Utilities	Daviess County, Kentucky	SERC	Suspected Physical Attack	Vandalism	2	110
June	6/1/2015	7:19 PM	6/2/2015	8:36 AM	Pacific Gas & Electric Co	California	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	5	484
June	6/2/2015	6:58 PM	6/2/2015	7:24 PM	Pacific Gas & Electric Co	California	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	5	727
June	6/3/2015	3:00 PM	6/5/2015	5:00 PM	ERCOT	Texas	TRE	Public appeal to reduce the use of electricity	System Operations	Unknown	Unknown

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2015

June	6/7/2015	1:54 PM	6/7/2015	2:13 PM	Memphis Light Gas and Water Division	Shelby County, Tennessee	SERC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident System-wide voltage reductions of 3 percent or more	System Operations	926	Unknown
June	6/7/2015	1:52 PM	6/7/2015	2:13 PM	Tennessee Valley Authority	Tennessee	SERC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	Unknown	Unknown
June	6/8/2015	12:00 AM	Unknown	Unknown	California Department of Water Resources	Merced County, California	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability	System Operations	176	Unknown
June	6/20/2015	1:52 PM	6/20/2015	3:30 PM	Pacific Gas & Electric Co	Solano County, California	WECC	Suspected Physical Attack	Vandalism	Unknown	0
June	6/23/2015	6:00 PM	6/30/2015	6:00 PM	Atlantic City Electric Co	Gloucester County, Burlington County, Atlantic County, Cape May County, New Jersey	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	263,000
June	6/23/2015	5:06 PM	6/26/2015	4:00 PM	Delmarva Power & Light Company	New Castle County, Delaware	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	65,000
June	6/23/2015	5:30 PM	6/23/2015	7:00 PM	Exelon Corporation / PECO	Delaware County, PA; Chester County, PA	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	200,000
June	6/23/2015	6:30 PM	6/24/2015	5:00 AM	ISO New England	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	62,442
June	6/23/2015	6:18 PM	6/23/2015	8:30 PM	PJM Interconnection	New Jersey	RFC	Load shedding of 100 Megawatts or more implemented under emergency operational policy Loss of electric service to more than 50,000 customers for 1 hour or more	System Operations	198	156,338
June	6/23/2015	6:26 PM	Unknown	Unknown	Public Service Electric & Gas	New Jersey	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	90	73,000
June	6/26/2015	2:00 AM	Unknown	Unknown	Kansas City Power & Light Co	Kansas	SPP	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	110,000

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2015

June	6/27/2015	5:00 PM	6/30/2015	5:18 PM	Detroit Edison Co	Wayne County, Michigan	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	68,000
June	6/29/2015	7:21 PM	6/29/2015	7:42 PM	Peak Reliability	Washington	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	Severe Weather	0	0
June	6/30/2015	2:00 PM	6/30/2015	9:00 PM	California ISO	California	WECC	Public appeal to reduce the use of electricity	Severe Weather	Unknown	Unknown
June	6/30/2015	10:50 AM	7/1/2015	9:00 PM	Pacific Gas & Electric Co	California	WECC	Public appeal to reduce the use of electricity	Severe Weather	Unknown	Unknown
July	7/3/2015	8:30 AM	7/3/2015	2:30 PM	California Department of Water Resources	Butte County, California	WECC	Suspected Physical Attack	Suspicious Activity	0	0
July	7/3/2015	5:17 PM	7/3/2015	11:30 PM	ERCOT	Texas	TRE	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	350	30,000
July	7/13/2015	2:14 PM	7/16/2015	6:00 AM	Duke Energy Ohio Inc	Ohio, Kentucky	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	480	68,339
July	7/13/2015	7:40 PM	7/15/2015	12:15 PM	American Electric Power - (RFC Reliability Region)	Virginia	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	52,739
July	7/14/2015	3:29 PM	7/15/2015	11:55 AM	Entergy Services, Inc.	Arkansas	SPP	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	Severe Weather	Unknown	Unknown
July	7/14/2015	8:00 PM	7/15/2015	9:23 AM	Southern Company	Alabama	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	366	111,644
July	7/15/2015	2:00 AM	7/15/2015	2:55 AM	California Department of Water Resources	California	WECC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	360	0
July	7/16/2015	4:45 PM	7/16/2015	5:48 PM	American Electric Power - (SPP Reliability Region)	Texas	SPP	Load shedding of 100 Megawatts or more implemented under emergency operational policy	System Operations	117	17,311
July	7/18/2015	2:00 AM	7/19/2015	7:00 AM	Northern States Power Co	Henepin and Ramsey County, Minnesota	MRO	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	250	250,000

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2015

July	7/18/2015	6:26 PM	7/18/2015	9:03 PM	Pacific Gas & Electric Co	California	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	30	70
July	7/18/2015	7:59 PM	7/18/2015	10:45 PM	Pacific Gas & Electric Co	California	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	160	78,164
July	7/21/2015	12:47 PM	7/21/2015	1:12 PM	Peak Reliability	Washington	WECC	Load shedding of 100 Megawatts or more implemented under emergency operational policy	System Operations	200	Unknown
July	7/27/2015	3:52 AM	7/27/2015	4:36 AM	Pacific Gas & Electric Co	California	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	Unknown	484
July	7/28/2015	12:05 PM	7/28/2015	12:26 PM	Puerto Rico Electric Power Authority	Puerto Rico	N/A	System-wide voltage reductions of 3 percent or more	System Operations	150	Unknown
July	7/29/2015	4:45 PM	7/29/2015	9:00 PM	Long Island Power Authority	New York	NPCC	Fuel supply emergencies that could impact electric power system adequacy or reliability	System Operations	500	0
July	7/30/2015	9:50 AM	7/30/2015	7:00 PM	ERCOT	Texas	TRE	Public appeal to reduce the use of electricity	System Operations	Unknown	Unknown
July	7/30/2015	1:00 PM	Unknown	Unknown	Tennessee Valley Authority	Tennessee	SERC	Suspected Physical Attack	Vandalism	0	0
July	7/31/2015	10:55 AM	Unknown	Unknown	Peak Reliability	Washington	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational	System Operations	9	0
August	8/2/2015	5:45 PM	8/4/2015	3:00 AM	Consumers Energy Co	Emmet County, Grand Traverse County, Leelanau County, Kalkaska County, Benzie County, Manistee County, Wexford County, Missaukee County, Mecosta County, Michigan	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	162,000
August	8/3/2015	12:30 AM	8/3/2015	2:00 AM	Exelon Corporation / ComEd	Illinois	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	115,000
August	8/3/2015	1:00 AM	8/5/2015	12:00 AM	Detroit Edison Co	Michigan	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	72,520
August	8/3/2015	8:27 AM	8/4/2015	1:18 AM	Arizona Public Service Co	Arizona, New Mexico	WECC	Suspected Physical Attack	Sabotage	0	Unknown

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2015

August	8/4/2015	7:17 AM	8/5/2015	12:52 PM	ISO New England	Massachusetts and Rhode Island	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	132,000
August	8/11/2015	7:30 PM	8/13/2015	4:05 AM	CenterPoint Energy	Houston, Texas	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	100,000
August	8/13/2015	3:15 PM	8/13/2015	7:00 PM	ERCOT	Williamson County, Texas	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system	Other	Unknown	Unknown
August	8/27/2015	9:51 PM	8/28/2015	6:00 PM	Puerto Rico Electric Power Authority	Puerto Rico	WECC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident / Loss of electric service to more than 50,000 customers for 1 hour or more	System Operations	360	Unknown
August	8/29/2015	10:00 AM	Unknown	Unknown	Peak Reliability	Washington	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	500,000
August	8/29/2015	11:00 AM	9/4/2015	3:00 PM	Puget Sound Energy	King County, Skagit County, Whatcom County, Kitsap County, Pierce County, Thurston County, Island County, Washington	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	250	250,000
August	8/29/2015	1:00 PM	8/31/2015	7:00 AM	Seattle City Light	King County, Washington	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	1,200	64,000
September	9/3/2015	2:33 AM	9/3/2015	6:25 AM	Lansing Board of Water & Light	Michigan	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	50,114
September	9/13/2015	5:56 PM	9/13/2015	8:37 PM	Central Hudson Gas & Elec Corp	Dutchess County, New York	NPCC	Suspected Physical Attack	Vandalism	0	0
September	9/20/2015	1:12 PM	9/20/2015	1:44 PM	California ISO	California	WECC	Load shedding of 100 Megawatts or more implemented under emergency operational policy	System Operations	150	Unknown
September	9/29/2015	3:40 PM	9/29/2015	3:41 PM	PacifiCorp	Oregon	WECC	Suspected Physical Attack	Vandalism	Unknown	Unknown